

**Request to Archive
With The National Centers for Environmental Information
For ESSA Satellite Imagery: 1965 to 1972
Provided by NSIDC**

2016-03-09

This information will be used by NCEI to conduct an appraisal and make a decision on the request.

1. Who is the primary point of contact for this request?

G. Garrett Campbell

NSIDC

Scientist

3034925194

campbell@nsidc.org

2. Name the organization or group responsible for creating the dataset.

NSIDC

3. Provide an overview summarizing the scope of data you want to archive. Describe the outputs, data variables, including their measurement resolution and coverage.

ESSA visible satellite imagery from 1966 to 1972. Daily composite maps of visible brightness. Global coverage with approximate 10 km resolution. These are being recovered by scanning black and white 35 mm film constructed by ESSA (forerunner of NOAA) in the 1960's.

Note: until all the film is scanned we do not know the full time extent or gaps in the time series of data.

4. What is the time period covered by the dataset? (YYYY-MM-DD, YYYY-MM or YYYY)

From 1966-02-01 to 1972-06-30

5. Edition or version number(s) of the dataset:

N/A

6. Approximate date when the dataset was or will be released to the public:

2017-02-28

7. Who are the expected users of the archived data? How will the archived data be used?

This will be useful for the study of weather and climate before the current satellite record. It may be useful for reanalysis studies, cloud climatologies, special weather events.

8. Has the dataset undergone user evaluation and/or an independent review process? Did NCEI participate in design reviews?

No

9. Describe the dataset's relationship to other archived datasets, such as earlier versions or related source data. If this is a new version, how does it improve upon the previous version(s)?

The film archive is part of NCEI holdings, but access is difficult due to the fact that the data are on physical media and

there is scarcity of hardware with which to read the film. The raw film being scanned is being loaned to use from NCEI.

10. List the input datasets and ancillary information used to produce the data.

The input is the ESSA 35mm film archive from NCEI. We are scanning that film and tagging it with navigation information.

11. List web pages and other links that provide information on the data.

<http://science.nasa.gov/missions/essa/>

<https://nsidc.org/the-drift/data-update/nsidc-working-to-rescue-essa-1-data-as-the-satellite-celebrates-its-50-year-anniversary/> (ESSA1 rescue)

12. List the kinds of documents, metadata and code that are available for archiving. For example, data format specifications, user guides, algorithm documentation, metadata compliant with a standard such as ISO 19115, source code, platform/instrument metadata, data/process flow diagrams, etc.

1. This is being developed to meet the standard. (Once we figure out what is needed.)

13. Indicate the data file format(s).

1. netCDF-4

2. PNG

14. Are the data files compressed?

netCDF-4/HDF5 compression

15. Provide details on how the files are named and how they are organized (e.g., file_name_pattern_YYYYMM.tar in monthly aggregations).

Can name files according to archive standards. Propose monthly .tar files.

16. Explain how to access sample data files and/or a file listing for previewing. If it is not available now, when will it be available?

We will provide .png files for preview of the daily data.

17. What is the total data volume to be submitted?

Historic Data: all historic data or data submitted as a completed collection.

Total Data Volume: 50GB

Number of Data Files: 77

18. Are later updates, revisions or replacement files anticipated? If so, explain the conditions for submitting these additional data to the archive.

No additional updates, revisions or replacement data are anticipated.

19. Describe the server that will connect to the ingest server at NCEI for submitting the data.

Physical Location: Boulder, CO

System Name: TBD

System Owner: NSIDC > National Snow and Ice Data Center

Additional Information:

20. What are the possible methods for submitting the data to NCEI? Select all that apply.

1. FTP PUSH

21. Identify how you would like NCEI to distribute the data. Web access support depends on the resources available for the dataset.

1. Unknown

22. Will there be any distribution, usage, or other restrictions that apply to the data in the archive?

No known constraints apply to the data.

23. Discuss the rationale for archiving the dataset and the anticipated benefits. Mention any risks associated with not archiving the dataset at NCEI.

This is really making available a current NCEI data set. Since the raw data is on 35 mm film it is currently very difficult for potential users (including NSIDC) to access.

24. Are the data archived at another facility or are there plans to do so? Please explain.

We plan to archive the polar component of this data at NSIDC.

25. Is there an existing agreement or requirement driving this request to archive? Have you already contacted someone at NCEI?

For this effort we will be under contract to NCEI.

Contact people are: Jason Cooper (jason.cooper@noaa.gov) and David Fischman (david.fischman@noaa.gov)

26. Do you have a data management plan for your data?

No

27. Have funds been allocated to archive the data at NCEI?

No

28. Identify the affiliated research project, its sponsor, and any project/grant ID as applicable.

This project effort will be funded through the CIRES (Univ. of Colorado) cooperative agreement with NOAA.

29. Is there a desired deadline for NCEI to archive and provide access to the data?

No deadlines for archive or access.

30. Add any other pertinent information for this request.

None